

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 40, 42, and 46-48, CANCEL claim 41, and ADD new claims 49-51, in accordance with the following:

1-39. (CANCELLED)

40. (CURRENTLY AMENDED) A method of channel searching for a digital television receiver, comprising:

~~receiving a radio frequency (RF) digital broadcast signal;~~
~~converting the a received radio frequency (RF) digital broadcast signal into a baseband signal and;~~
decoding the converted baseband signal to reconstruct a digital broadcast transport stream which includes audio data, video data, and program information;
extracting the audio data, the video data, and the program information from the reconstructed digital broadcast transport stream and storing the extracted program information in a storage;
processing the extracted audio data to be output as sound;
processing the extracted video data to be output on a screen;
~~storing the extracted program information in a storage;~~
accessing the storage to generate a channel list based on the stored program information; ;
wherein the channel list comprises is made up of one or more separately identifiable channel groupings, each having one or more two-part channel numbers, where each of the one or more two-part channel numbers includes at least one ~~a~~ main channel number as a first part and the at least one main channel number has at least one corresponding and a sub-channel number in the received transport stream as a second part, and where each two-part channel number of a respectively identified channel grouping has a same main channel number and different sub-channel numbers; and
enabling a user to navigate~~ing~~ the channel list to search a two part channel number

channel number,

~~wherein when the at least one main channel number has at least one corresponding sub-channel number in the received transport stream, the at least one sub-channel number is listed after the at least one main channel number;~~

~~wherein the channel list is navigated according to a listing sequence comprising the at least one main channel numbers and corresponding sub-channel numbers respectively wherein information included in the channel list is derived from program associated information from a Program Specific Information (PSI) table, for plural programs included in the transport stream conforming with an MPEG standard, wherein an identifiable program according to the MPEG standard is distinguished from a predetermined corresponding two-part channel number.~~

41. (CANCELLED)

42. (CURRENTLY AMENDED) The method of claim 40, wherein the listing sequence can be determined based on proximity between respective channel grouping identifiers main channel numbers to allow the a select current two-part channel number, of one or more two-part channel numbers corresponding to a current channel grouping identifier, main channel number to be listed along with at least one two-part channel number, of one or more two-part channel numbers corresponding to a proximally related upper close channel grouping number identifier, and/or at least one two-part channel number, of one or more two-part channel numbers corresponding to a proximally related lower close channel grouping number identifier.

43-45. (CANCELLED)

46. (CURRENTLY AMENDED) The method of claim 40, wherein the channel list is configured to be navigable between two-part channel numbers, of one or more two-part channel numbers of a first channel grouping, and between the first channel grouping and a two-part channel number of a second channel grouping in vertical and/or horizontal directions.

47. (CURRENTLY AMENDED) The method of claim 40~~46~~, wherein the one or more sub-channel numbers~~two-part channel numbers~~ of the first channel grouping related to a main channel number are collectively displayed as a group in the same row direction as the main channel number with a first channel grouping identifier representing the first channel grouping.

48. (CURRENTLY AMENDED) The method of claim 40, further comprising:
receiving a command to navigate the channel list; and
displaying plural channel grouping identifiers and/or plural two-part channel numbers in the channel list in a numeric order.

49. (NEW) The method of claim 40, wherein the predetermined corresponding two-part channel number represents the identifiable program based on predetermined identification information unique to the program according to the MPEG standard, and a relationship, according to an ATSC standard, between the two-part channel number and the predetermined identification information unique to the program.

50. (NEW) The method of claim 46, wherein the channel list is navigated in a first direction between the one or more two-part channel numbers of the first channel grouping, and navigated in a second direction between the first channel grouping and the second channel grouping.

51. (NEW) The method of claim 50, wherein the first direction is different from the second direction.